



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/NL99/00316</p> <p>(22) International Filing Date: 20 May 1999 (20.05.99)</p> <p>(30) Priority Data: 1009226 20 May 1998 (20.05.98) NL</p> <p>(71) Applicant (for all designated States except US): FACULTEIT GENEESKUNDE UNIVERSITEIT UTRECHT [NL/NL]; Universiteitsweg 100, NL-3508 TA Utrecht (NL).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): VAN ASBECK, Bernt, Sweder [NL/NL]; Verheullaan 19, NL-3971 RD Driebergen (NL); MARX, Johannes, Josephus, Maria [NL/NL]; Johan Buziaulaan 41, NL-3584 ZT Utrecht (NL).</p> <p>(74) Agent: ALTENBURG, Bernardus, Stephanus, Franciscus; Octrooibureau Los en Stigter B.V., Weteringschans 96, NL-1017 XS Amsterdam (NL).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b></p> <p>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. In English translation (filed in Dutch).</p>	
<p>(84) Title: USE OF A NUCLEIC ACID-BINDING CHEMOTHERAPEUTIC AGENT, AND A PHARMACEUTICAL COMPOSITION</p> <p>(57) Abstract</p> <p>The invention relates to the use of a nucleic acid-binding chemotherapeutic agent, such as bleomycin, wherein the nucleic acid-binding chemotherapeutic agent is capable of complexing a metal ion yielding a complex that promotes the formation of hydroxyl radicals from hydrogen peroxide. According to the present invention the agent is used for the preparation of a virion number-reducing agent. The invention also relates to a pharmaceutical composition.</p>			

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL 99/00316

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 A61K31/70

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 138 480 A (GOSALVEZ) 6 February 1979 (1979-02-06) claims ----	5
A	E.A. SAUSVILLE ET AL.: "A role for ferrous ion and oxygen in the degradation of DNA by bleomycin." BIOCHEM. BIOPHYS. RES. COMMUN., vol. 73, no. 3, 1976, pages 814-822, XP002095484 ----	
A	S. CHAKRABARTI ET AL.: "Measurement of hydroxyl radicals catalyzed in the immediate vicinity of DNA by metal-bleomycin complexes." FREE RADICAL BIOL. MED., vol. 20, no. 6, 1996, pages 777-783, XP002095485 ----	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	J.R.F. MUINDI ET AL.: "Hydroxyl radical production and DNA damage induced by anthracycline-iron complex." FEBS LETTERS, vol. 172, no. 2, 1984, pages 226-230, XP002095486 -----	
A	R.M. BURGER ET AL.: "Mechanism of bleomycin action: in vitro studies." LIFE SCI., vol. 28, no. 7, 1981, pages 715-728, XP002095487 -----	

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No	
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